New Cisco Catalyst Switch Modules for IBM BladeCenter enable ease of management in both enterprise and office environments

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At a glance

The new Cisco Catalyst Switch Modules for BladeCenter feature:

- Interoperability with many existing IBM BladeCenter enterprise chassis, with the Switch Module 3012 supported with IBM BladeCenter S
- Management simplification using stacking of several switches
- Reduced cabling by sharing of uplinks
- Fourteen 1 Gb connections to the server blades

For technical support:

- Call the IBM Support Center at 800-IBM-SERV (426-7378)

  or

- Request technical information via the Web site at

  http://www.ibm.com/pc/support

Overview

The Cisco Catalyst Switch Modules for BladeCenter® represent the next-generation networking solution for blade server environments. Built upon Cisco's market-leading hardware and IOS software, the switches are engineered with technologies specifically designed to help meet the rigors of blade-server-based application infrastructure. Specifically, the switches are designed to deliver scalable, high-performance, highly resilient connectivity while supporting ongoing IT initiatives around reducing server infrastructure complexity and TCO by seamlessly integrating into existing Cisco management networks.

All three Cisco Catalyst Switch Modules for BladeCenter have the standard switch-bay form-factor. All three switches have fourteen 1 Gb connections to the server blades. The 3012 and 3110G have four 1 Gb uplinks, while the 3110X has a single 10 Gb uplink. The 3110G and 3110X switches feature advanced Layer 3 functions (IP Services) and IPv6 functions (Advanced IP Services) via optional software keys. With Cisco Catalyst Switch Modules 3110G and 3110X for BladeCenter, Cisco introduces a technology called the Virtual Blade Switch (VBS). This switch virtualization technology takes the individual physical switches within a rack of BladeCenter chassis and treats them as one logical switch. This innovation is the foundation of the switches' ability to deliver increased performance and resilience while simplifying operations and management.

Note: The 3110G and 3110X are not supported in the Multi-Switch Interconnect Module (MSIM) Option, P/N 39Y9314, when used in the BladeCenter H. The 3110X and 3110G are not supported in the BladeCenter S Chassis.

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For the latest information on safe and effective computing, periodically visit

http://www.ibm.com/pc/safecomputing

Key prerequisites

IBM BladeCenter chassis and blades

Planned availability date

April 30, 2008

Description

All offers are subject to availability. IBM reserves the right to alter product offerings and specifications at any time without notice. IBM is not responsible for photographic or typographic errors.

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Trademarks

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Product names

Description	Part number
Cisco Catalyst Switch Module 3110G for IBM BladeCenter(R)	41Y8523
Cisco Catalyst Switch Module 3110X for IBM BladeCenter	41Y8522
Cisco Catalyst Switch Module 3012 for IBM BladeCenter	43W4395
IP Services S/W Upgrade License for Cisco Catalyst 3110	43W4434
Advanced IP Services S/W Upgrade License for Cisco Catalyst 3110	43W4435

Technical information

Performance specifications

An enterprise Cisco switch module for fabric integration management into BladeCenter architecture and associated options

Physical specifications

- Approximate height: 112 mm (4.45 in)
- Approximate width: 29 mm (1.2 in)
- Approximate depth: 259.8 mm (10.25 in)

Operating environment

- Temperature: 10° to 35°C (50° to 95°F)
- Relative humidity: 8% to 80% noncondensing

Agency approvals

- FCC part 15B Class A
- CAN/CSA-C22.2 No.60950-1-03
- Canada ICES-003
- VCCI Class A ITE (Japan)
- C-Tick
- CE Mark
- CISPR 22 Class A
- UL
- cUL
- TUV
- A4EN55022 level A (EC)
- Voltage fluctuations: EN61000-3-3
- Harmonics: EN61000-3-2
- Immunity: EN55024:1998

ENERGY STAR-compliant: No

Hardware requirements: The Cisco Catalyst Switch Modules 3110G and 3110X for BladeCenter are supported on the following IBM platforms:

System name	Machine type	Model
BladeCenter	8677	All
BladeCenter T	8720/8730	
BladeCenter H	8852	
BladeCenter HT	8740/8750	

The Cisco Catalyst Switch Module 3012 for BladeCenter is supported on the following IBM platforms:

System name	Machine type	Model
BladeCenter	8677	All
BladeCenter T	8720/8730	
BladeCenter H	8852	
BladeCenter HT	8740/8750	
BladeCenter S	8886	

The Cisco Catalyst Switch Modules 3012, 3110G, and 3110X for BladeCenter are supported on the following BladeCenter blade servers:

System name	Machine type	Model
BladeCenter HS21	7995	All
LS21	7971	
JS21	8844	
LS41	7972	

Software requirements: None

Compatibility: The product is designed to maintain compatibility with many IBM products. As a part of the ServerProven® program, BladeCenter compatibility listings are updated on the Web. Detailed information relative to IBM and non-IBM vendor devices, adapters, software, and network operating systems supported with BladeCenter products can be accessed via

http://www.ibm.com/us/compat

Limitations: None

Planning information

Additional cable orders required: No

Approximate installation time: 20 minutes

Packaging: One box

Shipment group — Switch Module

- Cisco Switch Module
- Getting started guide
- 1 m stacking cable
- Console cable

Packaging dimensions/weight

- Single box
  - Height: 431.80 mm (17 in)
  - Depth: 406.40 mm (16 in)
  - Width: 127.00 mm (5 in)
  - Weight: 5 lb

Security, auditability, and control

This product uses the security and auditability features of host hardware, host software, and application software.

Terms and conditions

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Field-installable                          Yes
Customer setup                             Yes
Warranty period(1)                         1 year(1)
Service type (CCE/CCR/CRU)                 CRU(2)
Maintenance agreement                      No
Optional upgrade                           No
Licensed programs                          No

(1) To obtain copies of the IBM Statement of Limited Warranty, contact
     your reseller or call IBM.

    In the United States, call 800-IBM-SERV (426-7378), or write to:

    Warranty Information
    P.O. Box 12195
    Research Triangle Park, NC  27709
    Attn: Dept JDJA/B203

(2) Customer replacement unit
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Note: Programs included with this product are licensed under the terms and conditions of the license agreements that are shipped with the feature or option.

All other terms and conditions are the same as those applicable to the IBM machine type in which the feature is installed.

Help and service information — Features and options

During the warranty period, support for a warranty-related issue can be obtained by accessing IBM's online services (requires Internet access account, not included) or calling the IBM Support Center at 800-426-7378, 24 hours a day, 7 days a week, to answer any questions regarding your new IBM option. Response time will vary depending on the number and nature of calls received.

If you need warranty service, return or exchange is available. In addition, if your IBM option is installed in an IBM computer, you may be entitled to service at your location. For general questions related to the use of your options, fee-based support is available. Your technical support representative can help you determine the best alternative.

Accessing IBM on-line services

http://www.ibm.com/support

International Warranty Service (IWS): IWS is available during the warranty period to customers who travel or relocate to countries where their computer is sold and serviced by IBM or IBM resellers authorized to perform warranty service. Eligible IBM computers are identified by their four-digit machine type.

You can obtain IWS through the method of service, such as CRU, depot, carry-in or on-site, provided in the servicing country. Service methods and procedures vary by country, and some service or parts may not be available in all countries. Service centers in certain countries may not able to service all models of a particular machine type. In addition, some countries may have fees and restrictions that apply at the time of service.

To determine the eligibility of your computer and to view a list of countries where service is available, visit

http://www-3.ibm.com/pc/support/site.wss/warranty/warranty.vm

Prices

For current prices, contact us at 888-Shop-IBM (746-7426) or visit

http://www-03.ibm.com/systems/x/

Option SEOs

Description	SEO number
Cisco Catalyst Switch Module 3110G for BladeCenter	41Y8523
Cisco Catalyst Switch Module 3110X for BladeCenter	41Y8522
Cisco Catalyst Switch Module 3012 for BladeCenter	43W4395
IP Services S/W Upgrade License for Cisco Catalyst 3110	43W4434
Advanced IP Services S/W Upgrade License for Cisco Catalyst 3110	43W4435

The following are newly announced features on the BladeCenter machine types 8677, 8852, 8720, 8730, 8740, and 8750 Model HC1:

Description	Feature number
Cisco Catalyst Switch Module 3110X for BladeCenter	2988
Cisco Catalyst Switch Module 3110G for BladeCenter	2989
IP Services S/W Upgrade License for Cisco Catalyst 3110	4901
Advanced IP Services S/W Upgrade License for Cisco Catalyst 3110	4902
Cisco Catalyst Switch Module 3012 for BladeCenter	5450
Cisco Catalyst Switch Module 3012 in Bay 1	7024
Cisco Catalyst Switch Module 3012 in Bay 2	7025
Cisco Catalyst Switch Module 3012 in Bay 3	7026
Cisco Catalyst Switch Module 3012 in Bay 4	7027
Cisco Catalyst Switch Module 3110G in Bay 1	7028
Cisco Catalyst Switch Module 3110G in Bay 2	7029

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Cisco Catalyst Switch Module 3110G in Bay 3         7030
Cisco Catalyst Switch Module 3110G in Bay 4         7031
Cisco Catalyst Switch Module 3110X in Bay 1         7032
Cisco Catalyst Switch Module 3110X in Bay 2         7033
Cisco Catalyst Switch Module 3110X in Bay 3         7034
Cisco Catalyst Switch Module 3110X in Bay 4         7035
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The following is a newly announced feature on the BladeCenter machine type 8886 Model AC1:

Description	Feature number
Cisco Catalyst Switch Module 3012 for BladeCenter	5450

IBM Global Financing

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